



Online Courses for High School Students

1-888-972-6237

Earth Science

Semester A

How much do we really know about our home, planet Earth? The Earth Science course will explore the dynamic systems of Earth and Space to help students understand how Earth's systems have developed through time, how they are interrelated, and how humans impact them. In the first semester, students will investigate the universe and its stars, the planets of the Solar System, and the systems that make up Earth. Students will examine the role of water on our planet and sun-driven interactions affecting climate and weather. They will also model biogeochemical cycles and energy flow through Earth's systems. Students will use critical thinking and problem-solving skills to learn through videos, readings, interactive activities, mini-projects, labs, and simulations based on real-world data.

Prerequisite: None

Labs: All labs must be provided and administered by the home district.

Course Length: Two Semesters

Materials: <https://ideal.accelerate-ed.com/materials/233769269/course>

Semester A Modules:

- Module 1: The Nature of Science
- Module 2: The Universe and its Stars
- Module 3: Earth's Place in the Universe
- Module 4: Earth's Atmosphere
- Module 5: Water on Earth
- Module 6: Biogeology

Semester B

In the second semester, students will explore how Earth's surface changes through plate tectonics and geological processes. Students will also take a step back in time to see how the Earth and life developed through its timescale. By the end of the course, students will be able to explain the different systems on Earth, how they affect each other, and how the Earth is changing due to human activity. This course will give students tools and information to examine their daily choices in response to ongoing natural hazards like climate change and find ways to protect the Earth and its natural resources.

Semester B Modules:

- Module 7: Earth's Changing Surface
- Module 8: Studying Earth's Past
- Module 9: Earth's Changing Conditions and Life
- Module 10: Earth's Changing Climate
- Module 11: Natural Resources
- Module 12: Human Impact and Natural Hazards